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Superfund

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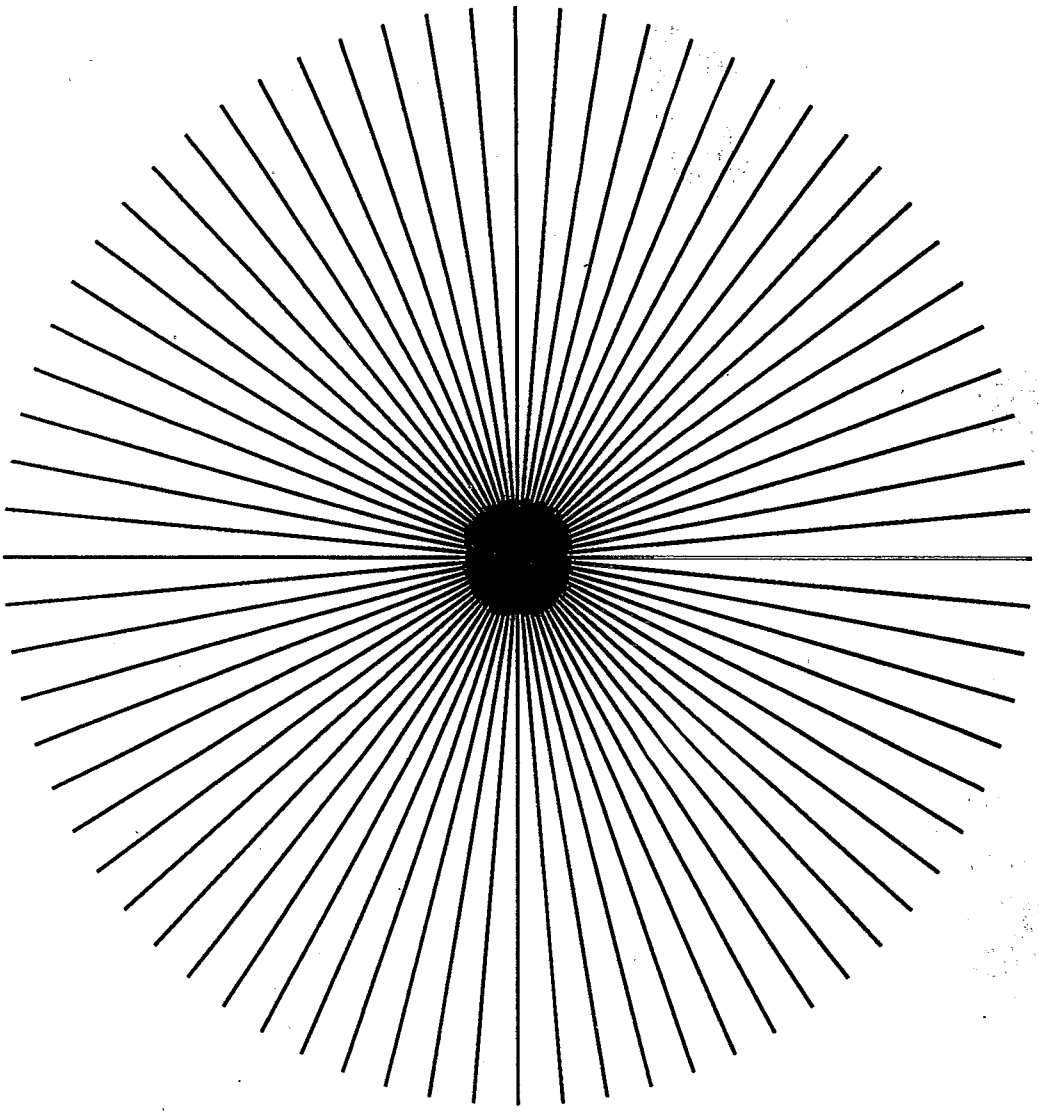
Technical Support Services for Superfund Site Remediation

Second Edition



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Use this chart to identify the programs that offer expertise in your area of concern. If you're not sure where to start, try one of the Regional Contacts listed in Appendix A, beginning on page 23 or call Rich Steimle in OSWER's Technology Innovation Office at FTS 382-7914—he'll get you connected with the right source.

Technical Support Services for Superfund Site Remediation

SECOND EDITION

Printed on Recycled Paper

Questions or comments on this document should be directed to:

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Washington, DC 20460

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Preface

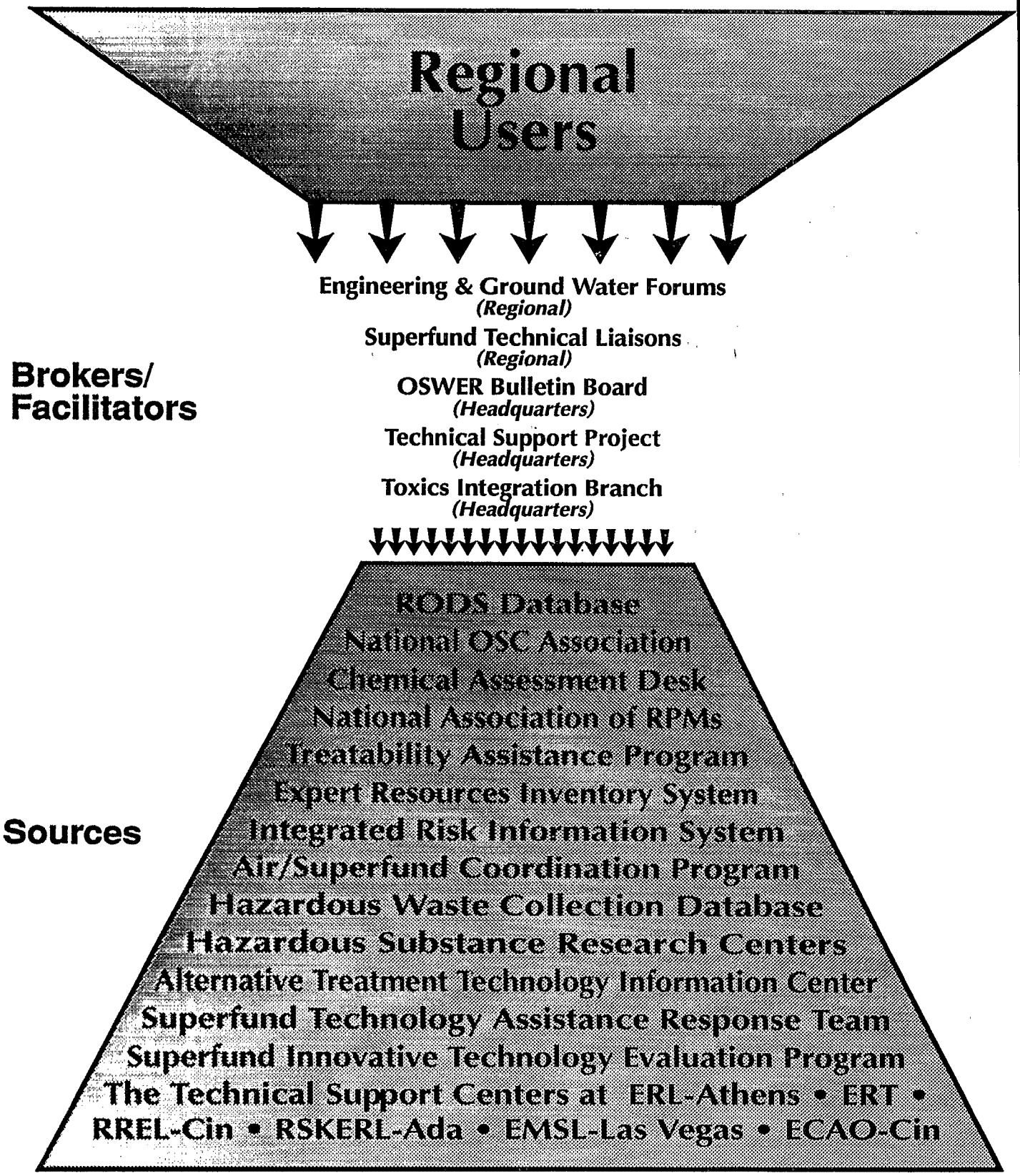
The Office of Solid Waste and Emergency Response and the Office of Research and Development provide numerous opportunities for technical assistance—some multi-faceted and others directed to specific topics. This Directory of Technical Support Services was first prepared in response to the Administrator's 90-Day Review of Superfund and the need to make such technical assistance more widely available. This edition has been updated with an organizational overview of the many sources and facilitators for technical assistance in addition to some additional sources and a restructured list of headquarters contacts.

The goal of this Directory is to enable EPA field staff to quickly identify the existing technical support services that will be most useful for their specific problem. Rather than an exhaustive inventory of all sources of technical information, this Directory highlights the significant OSWER and ORD technical assistance programs—those that have procedures in place to process requests for assistance (*e.g.*, answering a technical question, providing staff to work on the problem, or referring callers to the appropriate source). The Directory will allow users to access the most information with the least effort.

Walter W. Kovalick, Jr.

Walter W. Kovalick, Jr., Ph.D.
Director, Technology Innovation Office

An Organizational Overview of Superfund Technical Support



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Technical Support Sources and Brokers

Technical Support Project (TSP)*

Monitoring and Site Characterization Technical Support Center
Environmental Monitoring Systems Laboratory, Las Vegas (EMSL-LV)

Contact: Ken Brown
FTS 545-2270 or (702) 798-2270

EMSL, Las Vegas, Nevada, provides scientific and technical assistance in contaminant detection, hydrologic monitoring, site characterization, sample analysis, data interpretation, and geophysics. Services include:

- Saturated and unsaturated zone monitoring
- Remote sensing, mapping, and geostatistics
- Analytical methods and quality assurance
- Bore-hole and surface geophysics
- X-ray fluorescence field survey methods
- Mixed waste and radiological analysis

Ground-Water Fate and Transport Technical Support Center
Robert S. Kerr Environmental Research Laboratory (RSKERL)

Contact: Dick Scalf
FTS 743-2308 or (405) 332-8800

RSKERL, in Ada, Oklahoma, is EPA's center for fate and transport research, focusing its efforts on transport and fate of contaminants in the vadose and saturated zones of the subsurface,

** The TSP is made up of six Technical Support Centers and two Technical Support Forums. It is a joint service of the Office of Solid Waste and Emergency Response, the Office Research and Development, and the Regions. The TSP offers direct site-specific technical assistance to OSCs and RPMs and develops technology workshops, issue papers, and other information for Regional staff. The TSP:*

- *Reviews contractor work plans, evaluates remedial alternatives, reviews RI/FS, assists in selection and design of final remedy*
- *Offers modeling assistance and data analysis and interpretation*
- *Assists in developing and evaluating sampling plans*
- *Conducts field studies (soil gas, hydrogeology, site characterization)*
- *Develops technical workshops and training, issue papers on ground-water and engineering topics, generic protocols*
- *Assists in performance of treatability studies*

methodologies relevant to protection and restoration of ground-water quality, and evaluation of subsurface processes for the treatment of hazardous waste. The Center provides technical assistance such as evaluating remedial alternatives; reviewing RI/FS and RD/RA workplans; and providing technical information and advice in:

- Pump and treat technology for aquifer remediation
- *In situ* biorestoration of soils and ground water
- Subsurface geochemistry
- Contaminant transport modeling
- Subsurface contaminant transformation

Subsurface Remediation Information Clearinghouse
Contact John Matthews at RSKERL at FTS 743-2233 or (405) 332-8800.

The Subsurface Remediation Information Clearinghouse was established at RSKERL to provide for transfer of up-to-date subsurface fate, transport, and remediation research and demonstration information. The Clearinghouse's technical information specialists locate, assess, and document pertinent information sources, including planned, active, or completed subsurface remediations. This information is used in the development and maintenance of four specific databases:

- Soil transport and fate database
- Subsurface remediation literature database
- Biotechnology/bioremediation practitioners database
- Subsurface remediation database

International Ground-Water Modeling Center (IGWMC)
Contact Cathy Mulberry at (317) 283-9458

RSKERL also supports the operation of the International Ground-Water Modeling Center (IGWMC) at the Holcomb Research Institute in Indianapolis, Indiana. IGWMC collects and disseminates information about ground-water modeling software. The Center compiles databases of descriptions of ground-water models and offers courses and seminars on the theory and application of ground-water models.

Exposure and Ecorisk Assessment Technical Support Center
Environmental Research Laboratory, Athens (ERL-Athens)

Contact: Bob Ambrose
FTS 250-3130 or (404) 546-3130

ERL, Athens, Georgia, emphasizes multimedia exposure and risk assessment modeling of remedial action alternatives. An electronic bulletin board has been established to disseminate models and databases and to exchange modeling information. The technical support services include:

- Models, databases, and analytical techniques
- Multimedia modeling of organic chemical and heavy metal pollutant fate
- Soil/water and surface water/sediment systems
- Ecological impact and ecorisk assessments

Environmental Response Team Technical Support Center
Environmental Response Team (ERT)

Contact: Joseph Lafornara
FTS 340-6740 or (201) 321-6740

ERT, in Edison, New Jersey, provides support in responding to releases of hazardous waste, chemicals, and oil. ERT also provides support in risk assessment, multi-media sampling and analysis, health and safety, cleanup techniques, and training for response personnel. Services include:

- Response techniques for emergency hazardous chemical releases
- Treatment technologies, sampling plans, and contaminant assessment
- Technical review for remedial and removal technology, safety, and preparedness
- Hazardous Materials Incident Response Training Program
- Site-safety plans, personnel protection, and safety

Health and Risk Assessment Technical Support Center
Environmental Criteria and Assessment Office-Cincinnati (ECAO-Cin)

Contact: Pei Fung-Hurst
FTS 684-7534 or (513) 569-7534

ECAO, in Cincinnati, Ohio, provides rapid turnaround support in the assessment of Superfund health and risk issues. The Center at ECAO-Cin:

- Provides chemical-specific health information
- Answers questions on the *Risk Assessment Guidance for Superfund (RAGS) Human Health Evaluation Manual*
- Develops interim and default approaches for issues related to risk assessment for Superfund sites
- Reviews site-specific Superfund risk assessments
- Develops, in cooperation with Superfund staff, site-specific and health-based trigger or cleanup levels for a contaminant
- Assists Regions in the identification of surrogate cleanup levels based on risk to human health

Engineering and Treatment Technical Support Center
Risk Reduction Engineering Laboratory, Cincinnati (RREL)

(see description on page 5)

Ground-Water and Engineering Technical Support Forums

Technical Support Forums are comprised of one or more technical specialists, RPMs, or OSCs from each of EPA's ten Regions. Two Forums have been established to date: *Ground-Water Fate and Transport*, and *Engineering*. Forum members provide information to OSCs and RPMs in their Regions regarding TSP efforts, research undertaken by the Centers, and problems and successes experienced by other Regions, including the application of remedial technologies at Superfund sites. Forum members convene by telephone monthly and meet twice each year. Forum members:

- Channel communications among the Regions, TSCs, headquarters personnel, and existing EPA technical programs
- Increase the transfer of information among the Centers and the Regions
- Act as a technical resource to the Regions and the Centers
- Route technical assistance information to Regional colleagues

Consult Appendix A, Regional Contacts, for the names and numbers of the Forum Members in your Region.

Engineering Programs and Treatability Studies

Ben Blaney: FTS 648-7406 or (513) 569-7406

EPA's Risk Reduction Engineering Laboratory offers the Regions three engineering technical assistance programs:

- Engineering and Treatment Technical Support Center
- Treatability Assistance Program (TAP)
- Superfund Technology Assistance Response Team (START)

The Engineering and Treatment Technical Support Center and the Superfund Technology Assistance Response Team (START) both handle site-specific remediation engineering problems for RPMs. The Treatability Assistance Program is intended to enhance RPMs' knowledge of treatment technologies and the conduct of treatability studies through technology transfer activities and the augmentation of EPA's in-house treatability study capabilities.

RREL offers expertise in contaminant source control structures; materials handling and decontamination; treatment of soils, sludges, and sediments; and treatment of aqueous and organic liquids. The following are examples of the technical assistance that can be obtained through RREL:

- Review of treatability aspects of RI/FS
- Review of RI/FS treatability study workplans and final reports
- Oversight of RI/FS treatability studies
- Review of treatability RFPs
- Definition of alternative remedies
- Assistance with studies of innovative technologies
- Assistance in full-scale design and start-up

Engineering and Treatment Technical Support Center

The Engineering and Treatment Technical Support Center plans and conducts engineering research and development related to treatment of solid and hazardous wastes. The Center is intended to supply quick-response technical assistance on focused, site-specific problems.

Treatability Assistance Program

Laboratory in-house treatability study capabilities cover soils and liquid streams. There are facilities for solidification, incineration, and chemical treatment studies of soils and incineration and chemical/physical/biological treatment of liquids. Facilities for conducting studies of extraction and biological treatment of soils are being developed.

The Treatability Assistance Program offers the following types of technology transfer support:

- List of available contractors to perform treatability studies
- Generic and technology-specific treatability study protocols (in preparation)

- Comprehensive database of all aqueous treatability studies
- Brief Treatment Technology Bulletins describing the applicability of various technologies

To obtain any of these lists or documents, contact Joan Colson (FTS 684-7501 or (513) 569-7501).

Superfund Technology Assistance Response Team (START)

The Superfund Technology Assistance Response Team (START) team provides technical support on Superfund site remediation from initial site evaluation through post-ROD design phases of remedial actions. START provides a long-term commitment of ORD engineering expertise (from RI/FS work plan development through 30% remedial design) as part of the technical assistance team for remediation of a particular site. Sites to receive START assistance are identified by Regional management.

Toxics Integration Branch

David Bennett: FTS 475-9486 or (202) 475-9486

The Toxics Integration Branch (TIB) of the Office of Emergency and Remedial Response's Hazardous Site Evaluation Division coordinates development of Superfund guidance, databases, technical assistance networks and program Directives relating to the (1) conduct of baseline health and environmental risk assessment; (2) development of risk information for remedial alternatives; and (3) use of risk information in establishing remediation goals during the remedy selection process. In addition to providing guidance in the above areas, TIB can assist the Regions in resolving conflicts with the Agency for Toxic Substance and Disease Registry (ATSDR) and in developing risk-related training programs for Regional, state, or contractor staff. TIB has established a network of Regional Toxics Integration Coordinators that can assist program staff on related matters at the Regional level.

Consult Appendix A, Regional Contacts, for the Toxics Integration Coordinator in your Region.

Superfund Technical Liaison Program (STLP)

David Klauder: FTS 382-7667 or (202) 382-7667

An ORD Technical Liaison will be placed in the Hazardous Waste Management Division of interested Regions to serve as a source of ORD information and to offer suggestions as to which laboratory can provide assistance to Regional emergency response, removal and remedial, enforcement, and environmental services personnel. STLP representatives in the Regions serve as brokers of technical support services to put requesters in touch with technical information suppliers.

Consult Appendix A, Regional Contacts, for the Superfund Technical Liaison in your Region.

Air/Superfund Coordination Program

Joseph Padgett: FTS 629-5589 or (919) 541-5589

Regional Air Offices review RODs for air impacts due to remediation. The Air/Superfund Coordination program is designed to help RPMs design ways to mitigate air impacts at Superfund sites, provide Air Office liaisons to Regional Superfund offices, and provide technical assistance and recommendations.

The Air/Superfund Coordination Program offers:

- Direct support: site evaluation, remedy selection, modeling assistance, monitoring, air pollution control devices
- Support services: interprogram coordination, training, resolving interprogram issues
- National Technical Guidance Studies (NTGS) to improve quality and consistency of procedures and data collection. The four-volume set covers baseline air emissions, air emissions from remediation, modeling and monitoring protocols, air pathway analysis procedures, and remediation field support procedures.

Consult Appendix A, Regional Contacts, for the Air/Superfund Coordinator in your Region.

Chemical Assessment Desk (CAD)

Elaine Suriano: FTS 382-3544 or (202) 382-3544

The Chemical Assessment Desk, operated by the Office of Toxic Substances, provides technical consultation and information on chemical risk-related issues to EPA Program Offices, Regions, and State and local agencies.

CAD offers a single contact point to:

- Consult on risk assessment and risk management activities for chemicals that have been evaluated in the OTS Existing Chemical Program
- Obtain assistance in identifying risk assessment activities in other EPA offices and Federal agencies
- Obtain estimates of toxicity and environmental fate based on structure-activity relationships
- Help identify unpublished information submitted to OTS
- Obtain comments on technical aspects of non-OTS evaluations and risk assessments

Superfund Innovative Technology Evaluation (SITE) Program

John Martin: FTS 684-7758 or (513) 569-7758

The SITE Program supports development of technologies for assessing and treating waste from Superfund sites. The program provides an opportunity for commercial technology developers to demonstrate the capabilities of their technologies. EPA evaluates the technologies and provides an assessment of their potential for future application.

The SITE Program is made up of four components: the Demonstration Program, the Emerging Technologies Program, the Monitoring and Measurement Technologies Program, and Technology Transfer activities.

Each Region has a contact person that provides information on the SITE Program. Consult Appendix A, Regional Contacts, for the name and number of the contact in your Region. To propose a candidate demonstration site, contact either your Regional Contact or John Martin at the Risk Reduction Engineering Laboratory at the number above.

Technical reports describing completed demonstrations and general information may be obtained from the Center for Environmental Research (CERI) in Cincinnati, Ohio at FTS 684-7562 or (513) 569-7562. As of September, 1990, forty-three technologies have been selected for evaluation. Fourteen demonstrations have been completed, and eight final reports are available. In addition, updates to demonstrations are posted on the OSWER Electronic Bulletin Board. (See description on page 13.)

Bioremediation Field Initiative

Fran Kremer FTS 684-7346 or (513) 569-7346

OSWER and ORD have jointly instituted a Bioremediation Field Initiative to provide assistance to the Regions in conducting field tests and evaluations of bioremediation site cleanups in Superfund, RCRA, UST, and state non-NPL programs planned or in progress as of June, 1990. The initiative will be in effect for the next 18 to 24 months.

The initiative is designed to more fully document performance of full-scale field applications of bioremediation, provide technical assistance for sites in a feasibility or design stage (to facilitate treatability studies), and regularly provide the Regions with information on treatability studies, design, and full-scale operations of bioremediation projects in the Regions.

To request assistance at a Superfund site or obtain more information about on-going bioremediation projects in the field, contact Fran Kremer at the number above.

Automated Information Systems

1. **OSWER Electronic Bulletin Board (OSWER BBS)**
   Contact: Jim Cummings FTS 382-4686 or (202) 382-4686

   The OSWER Electronic Bulletin Board System (BBS) facilitates communication and the dissemination of information among EPA staff in Regional offices, headquarters, and research laboratories.

   To use the OSWER BBS you need a personal computer or terminal, a modem, and a communications program. To access the OSWER BBS, dial (301) 589-8366 after setting your CrossTalk parameters to 8 data bits, 1 stop bit, and no parity. Choose your own password, complete an on-line registration questionnaire and in 24 hours you'll be a registered user with full access to all features of the system. The BBS is available to EPA staff, current contractors, and State and Federal agency personnel.

   Major features of the OSWER BBS include:

   - Information Bulletins
   - Message Exchange
   - File Exchange
   - Technical Publication Ordering
   - On-line Databases and Directories

2. **RODS Database**
   Contact: RODS Information Hotline (202) 245-3770

   RODS is an automated database containing Superfund Records of Decision (ROD), which describe the planned course of action to clean up a site. The database, installed on a mainframe at EPA's National Computer Center in Research Triangle Park, allows searching for selected information from ROD documents or NTIS Abstracts. Access is via modem from a PC.

3. **Alternative Treatment Technology Information Center (ATTIC)**
   Contact: Myles Morse FTS 475-7161 or (202) 475-7161

   The ATTIC system is designed to provide technical information on alternative methods of hazardous waste treatment. ATTIC is available through any modem-equipped IBM compatible PC using standard communications software. The on-line system allows the experienced user to conduct searches and download technical information without going through the ATTIC system operator. The ATTIC system operator is available to respond to information requests from users that do not have communications capabilities or do not wish to conduct their own searches.

The core of the ATTIC system is the ATTIC Database, a user-searchable, keyword-driven system that contains technical information in the form of abstracts or report summaries from a variety of sources including the SITE Program, States, industry, NATO, DOD/DOE, RODs, and Treatability Studies. The two other online user-searchable databases in ATTIC are the RREL Water Treatability Database and Technical Assistance Directory.

Other databases contained in the ATTIC system that can be searched by the System Operator upon request include:

- RSKERL Soil Transport and Fate Database
- EPA Library Hazardous Waste Collection Database
- Cost of Remedial Action Model
- Geophysics Advisor Expert System
- RODS Database

Access to the on-line ATTIC system is controlled by a log-in ID and password available from the ATTIC system operator. Technical information requests can also be made directly to the system operator. The ATTIC system operator can be reached at (301) 816-9153.

4. **Expert Resources Inventory System (ERIS)**
Contact: Kurt Lamber FTS 398-8624 or (703) 308-8624

The Expert Resource Inventory System, maintained by the Office of Waste Programs Enforcement (OWPE), is a searchable database that contains resumes in summary form and information on qualifications, area of expertise, and previous experience of specialists available as expert witnesses or consultants to support hazardous waste enforcement actions. The database may be accessed by EPA and Department of Justice staff upon request. The database has been classified as "enforcement confidential" and is protected under the Privacy Act of 1974. Hard copies of complete resumes and other supporting documents are maintained in a parallel file in OWPE. Plans are underway to make ERIS available to authorized users on the OSWER Electronic Bulletin Board.

5. **Hazardous Waste Collection Database (HWCD)**
Contact: Liliana Puzick FTS 382-2977 or (202) 382-2977

The HWCD is a bibliographic database containing abstracts of EPA and other government agency reports, commercial books, policy and guidance directives, legislation, and regulations concerning hazardous waste that is searchable by subject. A database thesaurus is available to aid users in designing efficient searches.

6. **Integrated Risk Information System (IRIS)**
Contact: Linda Tuxen FTS 382-5949 or (202) 382-5949

IRIS contains health risk data, bibliographic and textual information on risk management,

water quality criteria, and drinking water standards. It is available on-line through EPA's electronic mail system (E-MAIL).

To access IRIS through E-MAIL, after signing on, type "IRIS" at the ">" prompt.

7. **Center for Exposure Assessment Modeling (CEAM)**
Contact: Bob Ambrose FTS 250-3130 or (404) 546-3130
CEAM BBS: FTS 250-3402 or (404) 546-3402

CEAM offers state-of-the-art exposure assessment technology and models for environmental risk-based decisions. CEAM provides:

- Assistance in site-specific problem definition and predictive techniques for assessing metals and chemical pathways
- Training and assistance to Regional Superfund staff in exposure and ecorisk assessments
- Distribution of models and databases
- Expert witness testimony and exposure calculations and assessments for especially difficult or unusual scenarios, peer review of exposure and ecorisk assessments

8. **Subsurface Remediation Information Clearinghouse**
Contact: John Matthews FTS 743-2233 or (405) 332-8800

See description on page 2.

9. **International Ground-Water Modeling Center (IGWMC)**
Contact: Cathy Mulberry at (317) 283-9458

See description on page 2.

10. **Commercial Databases** searchable free of charge by EPA HQ and Regional Librarians: DIALOG, Chemical Information System, and BRS Search Services are examples of commercial databases that abstract information relevant to EPA's hazardous and solid waste programs. Other commercial databases, including legal systems, are also available. For more information, contact your Regional librarian.

Publications

1. ***Catalog of Superfund Directives*** OSWER Directive 9200.7-01 - July 1988 (61 pages) The Catalog provides a reference to policy, procedural, and technical directives governing the Superfund program. Regular supplements are planned. Publications abstracted must be obtained from the issuing office. Regional and HQ libraries also have copies. Copies of the Catalog may be obtained from the Superfund Docket at (202) 382-6940 or FTS 382-6940.

2. ***OSWER Directives - System Catalog*** OSWER Directive 9013.15-3D (30 pages) Provides a list of OSWER Directives published through June 1988.

   Each Region also has an OSWER Directive Coordinator. Consult Appendix A, Regional Contacts, for the name and number of the Directives Coordinator in your Region.

3. ***Superfund Risk Assessment Information Directory*** OSWER Directive 9285.6-1 (202 pages). Publication number EPA/540/1-86/061

   The directory identifies and describes sources of information useful in conducting risk assessments. The directory covers sources of information to aid in hazard identification, dose-response assessments, exposure assessments, and risk characterization. Available from CERI (513) 569-7562 or FTS 684-7562.

4. ***Annotated Technical Reference for Hazardous Waste Sites***
   Contact: Office of Waste Programs Enforcement (OWPE)
   FTS 398-8622 or (703) 308-8622

   This reference provides information on 14 common site types: asbestos, battery recycling/lead, dioxins, landfills, metals, mining wastes, mixed waste, multi-source ground water, munitions, PCBs, pesticides, plating, solvents, and wood preserving. Information includes ARARs, risk assessments, and summaries of typical site characteristics. The reference provides access to technical expertise through lists of Regional technical experts and technical references. The current version is considered a draft and is being updated.

5. ***CERCLA Administrative Records: Compendium of Frequently Used Guidance Documents in Selecting Response Actions***
   Contact: Office of Waste Programs Enforcement (OWPE)
   CERCLA Guidance and Oversight Branch FTS 475-6770 or (202) 475-6770
   or Regional Administrative Records Coordinator

   This reference (sent to Regions May 22, 1989) serves as a central library of guidance documents in each Region. This also saves resources by avoiding the need to copy such documents for each administrative record.

6. ***Selected Alternative and Innovative Treatment Technologies for Corrective Action and Site Remediation*** Publication Number EPA/540/8-90/003

   A bibliography of international surveys, technology survey reports, treatability studies, guidance documents, technical support documents, reports on ground water, incineration, solidification, biological treatment, physical/chemical treatment, and databases. Available from CERI at FTS 684-7562 or (513) 569-7562.

7. ***SITE Program Fact Sheet*** OSWER Directive 9380.1-03FS July 1990 (4 pages)

   A concise description of the Superfund Innovative Technology Evaluation (SITE) Program including a program overview, highlights and progress, technology transfer activities and publications, and Regional contacts. Available from CERI at FTS 684-7562 or (513) 569-7562.

Notes

Other Sources of Information

1. **National Association of RPMs**
   Contact: Steve Veale, EPA Region VI, FTS 255-6715 or (214) 655-6715

   NARPM is a professional association representing approximately 400 EPA RPMs. An RPM Directory listing RPM name, phone, and professional information has been published to facilitate technical exchange among Regional staff. The NARPM Executive Council has representatives in each Region.

   Consult Appendix A, Regional Contacts, for the name and number of the NARPM Representative in your Region.

2. **National OSC Association**
   Contact: Bill Simes, EPA Region V, FTS 886-6236 or (312) 886-6236

   This is a professional association for the approximately 130 EPA On-Scene Coordinators. A directory listing OSCs by Region and by technical specialty is available by calling Bill Simes at the above number. Consult Appendix A, Regional Contacts, for the name and number of the NOSCA Representative in your Region.

3. **Regional Response and Removal Coordinators**

   Regional Coordinators for response and removal, located at Headquarters, provide the Regions with on-going support from early response and RI/FS scoping through post-ROD activities, and provide a national quality assurance program.

   Consult Appendix B, Headquarters Contacts, for the name and number of the Coordinator for your Region.

4. **Regional ARARs Coordinators**

   Regional ARARs Coordinators communicate Regional questions on ARARs issues to Headquarters, attend a monthly teleconference with Headquarters staff, and keep the Regions informed on latest national policies.

   Consult Appendix A, Regional Office Contacts, for the Coordinator in your Region.

5. Federal Facilities Coordinators

Federal Facility Coordinators provide policy information and guidance documents to Regional Staff concerned with hazardous waste sites at DOD, DOE, and other Federal facilities.

Consult Appendix A, Regional Contacts, for the Federal Facility Coordinator in your Region.

6. Center for Environmental Research Information (CERI)

Contact: Clarence Clemmons FTS 684-7358 or (513) 569-7358
Electronic Bulletin Board: FTS 684-7610 or (513) 569-7610

CERI develops publications, expert systems, and computer-assisted training and conducts training seminars in support of EPA programs including Superfund. CERI operates an electronic bulletin board with a database of over 15,000 searchable abstracts of all ORD publications.

7. Hazardous Substance Research Centers (HSRC)

Contact: Karen Morehouse FTS 382-5750 or (202) 382-5750

Five university-based centers, each serving a pair of Regions, focus on problems of their geographic regions with emphasis in a specific area of research. The Centers perform long-term and short-term research on all aspects of hazardous substance generation, management, use, transportation, and disposal. The Centers are committed to technology transfer, and are overseen by the Training and Technology Transfer Advisory Committee (TTAC).

Regional Contacts and areas of expertise:

- Region Pair 1 & 2.
  Contact: Patricia Meany FTS 835-3355 or (617) 565-3355
  Emphasis: ground-water remediation, pretreatment of industrial wastes, incineration
  Universities: New Jersey Institute of Technology, Massachusetts Institute of Technology, Princeton University, Rutgers University, Stevens Institute of Technology, Tufts University, and University of Medicine and Dentistry of New Jersey

- Region Pair 3 & 5.
  Contact: Harry Harbold FTS 597-9492 or (215) 597-9492
  Emphasis: biological degradation processes for organic substances
  Universities: University of Michigan, Howard University, and Michigan State University

- Region Pair 4 & 6.
  Contact: Norman Dyer FTS 255-2252 or (214) 655-2252
  Emphasis: waste minimization and waste management
  Universities: North Carolina State University, University of North Carolina-Chapel Hill, and Texas A&M University

- Region Pair 7 & 8.
  Contact: Jerry Anderson FTS 276-7372 or (913) 551-7372
  Emphasis: metal recovery and recovery of organic wastes
  Universities: Kansas State University, Montana State University, University of Iowa, University of Missouri, University of Montana, University of Nebraska, and University of Utah

- Region Pair 9 & 10.
  Contact: Don White FTS 484-1918 or (415) 744-1918
  Emphasis: physical, chemical, and biological treatment of surface and subsurface contaminants
  Universities: Stanford University and Oregon State University

8. Specialty Area Contacts

Certain technical and programmatic topic areas are of continuing interest to Regional staff. While the Regional Coordinators in Appendix B provide a principal point of contact, OERR has developed a list of Specialty Area Contacts who have more detailed knowledge of specific subjects that arise during site cleanup activities.

Consult Appendix B, Headquarters Contacts, for the name and number of the contact for your area of interest.

Notes

APPENDIX A: Regional Contacts

Region I

For commercial numbers: FTS 835 = (617) 565 and FTS 833 = (617) 573

Ground Water Forum Members (p. 4)	Steve Mangion Dick Willey	FTS 833-1718 FTS 833-1639
Engineering Forum Members (p. 4)	Yoon-Jean Choi Michael Jasinski Lynne Fratus	FTS 833-9633 FTS 833-5786 FTS 833-9634
Toxics Integration Coordinator (p. 7)	Sarah Levinson	FTS 833-1504
Air/SF Coordinator (p. 9)	Rose Toscano	FTS 835-3280
SITE Program Contact (p. 11)	Diana King	FTS 833-1676
OSWER Directives Coordinator (p. 16)	Francine Picardo	FTS 833-1700
NARPM Representative (p. 19)	Lynne Fratus	FTS 833-9634
NOSCA Representative (p. 19)	Paul Groulx	(617) 860-4300
ARARs Coordinator (p. 19)	Dennis Huebner Dick Boynton Bill Walsh-Roglaski	(617) 573-9610 FTS 833-9631 FTS 833-1334
Federal Facility Coordinator (p. 20)	Clara Chow	FTS 835-3287
Hazardous Substance Research Center Contact (p. 20)	Patricia Meany	FTS 835-3355

Region II

For commercial numbers: FTS 264 = (212) 264, FTS 835 = (617) 565, and FTS 340 = (201) 321

Ground Water Forum Members (p. 4)	Kevin Willis Frederick Luckey Alison Hess	FTS 264-1784 FTS 264-6786 FTS 264-6040
Engineering Forum Members (p. 4)	Richard Kaplan Agram Fayon	FTS 264-3819 FTS 264-4706
Toxics Integration Coordinator (p. 7)	Peter Grevatt	FTS 264-8775
Air/SF Coordinator (p. 9)	Grace Musumeci	FTS 264-2517
SITE Program Contact (p. 11)	Peter D. Moss	FTS 264-4703
OSWER Directives Coordinator (p. 16)	Leslie Peterson	FTS 264-9251
NARPM Representative (p. 19)	Damian Duda	FTS 264-9589
NOSCA Representative (p. 19)	Douglas Kodama	FTS 340-6905
ARARs Coordinator (p. 19)	Vince Pitruzzello	FTS 264-3984
Federal Facility Coordinator (p. 20)	Robert Hargrove	FTS 264-1892
Hazardous Substance Research Center Contact (p. 20)	Patricia Meany	FTS 835-3355

Region III

For commercial numbers: FTS 597 = (215) 597

Ground Water Forum Members (p. 4)	Kathy Davies Phil Rotstein	FTS 597-6488 FTS 597-8185
Engineering Forum Members (p. 4)	Paul Leonard	FTS 597-1286
Toxics Integration Coordinator (p. 7)	Richard Brunker	FTS 597-0804
Air/SF Coordinator (p. 9)	Donna Abrams	FTS 597-9134
SITE Program Contact (p. 11)	Paul Leonard	FTS 597-1286
OSWER Directives Coordinator (p. 16)	Donna Sutsko	FTS 597-6182
NARPM Representative (p. 19)	Terry Stilman	FTS 597-0984
NOSCA Representative (p. 19)	David Wright	FTS 597-7915
ARARs Coordinator (p. 19)	Bonita Guy Gross Marty Powell	FTS 597-9023 FTS 597-8170
Federal Facility Coordinator (p. 20)	Lorraine Urbiet	FTS 597-9302
Hazardous Substance Research Center Contact (p. 20)	Harry Harbold	FTS 597-9492

Region IV

For commercial numbers: FTS 257 = (404) 347 and FTS 255 = (214) 655

Ground Water Forum Members (p. 4)	(vacant)	
Engineering Forum Members (p. 4)	Jim Orban Jon Bornholm	FTS 257-2643 FTS 257-7791
Toxics Integration Coordinator (p. 7)	Elmer Akin	FTS 257-1586
Superfund Technical Liaison (p. 8)	John Risher	FTS 257-1586
Air/SF Coordinator (p. 9)	Stuart Perry	FTS 257-2864
SITE Program Contact (p. 11)	Elmer Akin	FTS 257-1586
OSWER Directives Coordinator (p. 16)	Rose Gray	FTS 257-3454
NARPM Representative (p. 19)	David Abbott	FTS 257-2643
NOSCA Representative (p. 19)	Arthur Smith	FTS 257-3931
ARARs Coordinator (p. 19)	Jim Orban	FTS 257-2643
Federal Facility Coordinator (p. 20)	Art Linton	FTS 257-3776
Hazardous Substance Research Center Contact (p. 20)	Norman Dyer	FTS 255-2252

Region V

For commercial numbers: FTS 886 = (312) 886, FTS 353 = (312) 353, and FTS 597 = (215) 597

Ground Water Forum Members (p. 4)	Doug Yeskis Luanne Vanderpool	FTS 886-0408 FTS 353-9296
Engineering Forum Members (p. 4)	Anthony Holoska Kaushal Khanna	FTS 886-7503 FTS 886-3011
Toxics Integration Coordinator (p. 7)	Steve Ostrodka	FTS 886-3011
Air/SF Coordinator (p. 9)	Xuan-Mai Trang	FTS 886-6043
SITE Program Contact (p. 11)	Steve Ostrodka	FTS 886-3011
OSWER Directives Coordinator (p. 16)	Denise Reape	FTS 353-8987
NARPM Representative (p. 19)	Ken Tindall	FTS 886-9895
NOSCA Representative (p. 19)	Leonard Zintak	FTS 886-1961
ARARs Coordinator (p. 19)	Jon Dikinis Judy Kleiman Jim Mayka	FTS 886-7572 FTS 886-1482 FTS 353-9229
Federal Facility Coordinator (p. 20)	Elmer Shannon	FTS 886-7342
Hazardous Substance Research Center Contact (p. 20)	Harry Harbold	FTS 597-9492

Region VI

For commercial numbers: FTS 255 = (214) 655

Ground Water Forum Members (p. 4)	Ruth Izraeli	FTS 255-6735
Engineering Forum Member (p. 4)	Deborah Griswold Sherry Fuerst	FTS 255-6715 FTS 255-2198
Toxics Integration Coordinator (p. 7)	Jon Rauscher	FTS 255-2198
Air/SF Coordinator (p. 9)	Mark Hansen	FTS 255-7223
SITE Program Contact (p. 11)	Sherry Fuerst	FTS 255-2197
OSWER Directives Coordinator (p. 16)	Helen Newman	FTS 255-6720
NARPM Representative (p. 19)	Steve Veale	FTS 255-6715
NOSCA Representative (p. 19)	Craig Carlton	FTS 255-2270
ARARs Coordinator (p. 19)	Sherry Fuerst	FTS 255-2197
Federal Facility Coordinator (p. 20)	Jim Highland	FTS 225-2260
Hazardous Substance Research Center Contact (p. 20)	Norman Dyer	FTS 255-2252

Region VII

For commercial numbers: FTS 757 = (913) 236 and FTS 276 = (913) 551

Ground Water Forum Members (p. 4)	Steve Kinser	FTS 276-7728
Engineering Forum Members (p. 4)	Steve Kovac	FTS 276-7698
Toxics Integration Coordinator (p. 7)	Dave Crawford	FTS 276-7702
Air/SF Coordinator (p. 9)	Wayne Kaiser	FTS 276-7603
SITE Program Contact (p. 11)	Dana Trugley	FTS 276-7705
OSWER Directives Coordinator (p. 16)	Barry Thierer	FTS 276-7515
NARPM Representative (p. 19)	Steve Kovac	FTS 276-7698
NOSCA Representative (p. 19)	George Hess	FTS 757-3888
ARARs Coordinator (p. 19)	Bob Feild	FTS 276-7697
Federal Facility Coordinator (p. 20)	Craig Burnstein	FTS 276-7688
Hazardous Substance Research Center Contact (p. 20)	Jerry Anderson	FTS 276-7372

Region VIII

For commercial numbers: FTS 330 = (303) 294, FTS 564 = (303) 293, and FTS 276 = (913) 551

Ground Water Forum Members (p. 4)	Paul Osborne Darcy Campbell	FTS 330-1418 FTS 330-7596
Engineering Forum Members (p. 4)	Henry Schroeder Gerry Snyder	FTS 330-7074 FTS 564-7504
Toxics Integration Coordinator (p. 7)	Chris Weis	FTS 330-7655
Superfund Technical Liaison (p. 8)	Bob Stone	FTS 330-7597
Air/SF Coordinator (p. 9)	Norm Huey	FTS 330-1760
SITE Program Contact (p. 11)	Gerry Snyder	FTS 564-7504
OSWER Directives Coordinator (p. 16)	Carol Macy	FTS 330-7038
NARPM Representative (p. 19)	Tim Rehder	FTS 330-1529
NOSCA Representative (p. 19)	Pete Stevenson	FTS 330-7064
ARARs Coordinator (p. 19)	Jonah Staller	FTS 330-7548
Federal Facility Coordinator (p. 20)	Elmer Chenault	FTS 330-1644
Hazardous Substance Research Center Contact (p. 20)	Jerry Anderson	FTS 276-7372

Region IX

For commercial numbers: FTS 556 = (415) 556 and FTS 484 = (415) 744

Ground Water Forum Members (p. 4)	Herb Levine Richard Frietas	FTS 484-1914 FTS 484-1914
Engineering Forum Members (p. 4)	Ken Erickson	FTS 484-1067
Toxics Integration Coordinator (p. 7)	Gerald Hiatt	FTS 484-1730
Air/SF Coordinator (p. 9)	Mike Stenberg	FTS 556-5271
SITE Program Contact (p. 11)	John Blevins	FTS 484-9103
OSWER Directives Coordinator (p. 16)	Deborra Samuels	FTS 556-6596
NARPM Representative (p. 19)	Alisa Greene Mike Montgomery	FTS 484-1890 FTS 484-1996
NOSCA Representative (p. 19)	Brad Shipley	FTS 484-1026
ARARs Coordinator (p. 19)	Jean Rice	FTS 556-5895
Federal Facility Coordinator (p. 20)	Rachel Dagovitz	FTS 556-5102
Hazardous Substance Research Center Contact (p. 20)	Don White	FTS 484-1918

Region X

For commercial numbers: FTS 399 = (206) 442 and FTS 484 = (415) 744

Ground Water Forum Members (p. 4)	Rene Fuentes Bernard Zavala	FTS 399-1599 FTS 399-1562
Engineering Forum Members (p. 4)	John Barich Bob Stamnes	FTS 399-8562 FTS 399-8562
Toxics Integration Coordinator (p. 7)	Patricia Cirone	FTS 399-1597
Air/SF Coordinator (p. 9)	Elizabeth Waddell	FTS 399-8578
SITE Program Contact (p. 11)	John Barich	FTS 399-8562
OSWER Directives Coordinator (p. 16)	Jayne Carlin	FTS 399-2852
NARPM Representative (p. 19)	Kathy Davidson	FTS 399-1088
NOSCA Representative (p. 19)	John Sainsbury	FTS 399-1263
ARARs Coordinator (p. 19)	Kathy Davidson	FTS 399-1088
Federal Facility Coordinators (p. 20)	Clark Smith	FTS 399-1327
Hazardous Substance Research Center Contact (p. 20)	Don White	FTS 484-1918

APPENDIX B: Headquarters Contacts

For commercial numbers, FTS 382 = (202) 382, FTS 475 = (202) 475, and FTS 398 = (703) 308

Fund Lead: RI/FS and ROD

Region	Name	FTS No.
I	Jennifer Haley	398-8363
II	Alison Barry	398-8366
III	Sharon Frey	398-8367
IV	Tish Zimmerman	398-8370
V	Andrea McLaughlin	398-8365
	Sandra Panetta	398-8364
VI	Robin Anderson	398-8371
VII	Tish Zimmerman	398-8370
VIII	Steve Golian	398-8360
IX	David Cooper	398-8361
X	Steve Golian	398-8360

Fund Lead: Removal and Expedited Response Action

Region	Name	FTS No.
I	Terry Eby	382-7734
II	Mark Mjoness	382-2206
III	Gregory Weigel	382-2196
IV	Gregory Weigel	382-2196
V	Terri Johnson	382-2205
VI	Jennifer Maloney	382-2184
VII	Terri Johnson	382-2205
VIII	Jennifer Maloney	382-2184
IV	Terri Johnson	382-2205
X	Terry Eby	382-7734

Enforcement Lead:
Removal, RI/FS, ROD, RD/RA, Negotiations, Litigation

Region	Name	FTS No.
I	Tai Ming Chang	475-8259
II	Bruce Kulpan	475-7283
	Lance Elson	382-5617
III	Deborah Pernice	382-2016
	Kathryn Boyle	475-9317
IV	Neilima Senjalia	475-7027
	Darlene Boerlage	382-4819
V	Kurt Lamber	382-4848
	Ernie Watkins	382-4837
	Trish Gowland	382-7790
VI	Filomena Chau	475-7082
	Debby Swichkow	475-7026
VII	Jack Schad	382-4831
VIII	Joe Tieger	475-8372
	Lori Boughton	382-7789
IX	Ross Natoli	382-2063
	Rick Popino	382-3401
X	Joe Tieger	475-8372

Fund and Enforcement Lead: Design and Construction

Region	Name	FTS No.
I	JoAnn Griffith	398-8353
II	Joe Cocalis	398-8356
III	Bill Zobel	398-8354
IV	Ken Skahn	398-8355
V	Tracy Loy	398-8349
VI	Ed Hanlon	398-8352
VII	Ken Skahn	398-8355
VIII	Ben Hamm	398-8347
IX	Ed Hanlon	398-8352
X	Ed Hanlon	398-8352

Specialty Area Contacts

Topic	Name	FTS No.
ARARS (Application of)	Rhea Cohen	382-2182
ARARS (Land Disposal Restrictions)	Steve Golian	398-8360
ARARS (Delisting, No migration)	Sharon Frey	398-8367
ASTSWMO	Ann McDonough	398-8339
Bureau of Reclamation, ARCS (Change orders, A/E Liability)	Tracy Loy	398-8349
Community Relations	Melissa Shapiro	398-8340
Completion/Deletion	Chris Watling	398-8348
Cooperative Agreements, SSCs, Core programs	Jan Baker	398-8328
CORA Model	Kirby Biggs	475-9756
Corps of Engineers	Bill Zobel	398-8354
Design of Containment Remedies	Ken Skahn	398-8355
Five Year Reviews	Bill Ross	398-8335
Ground Water Remediation	Jennifer Haley	398-8363
Health and Safety	Joe Cocalis	398-8356
Incineration	Robin Anderson	398-8371
Indemnification (State Contractors)	Hugo Fleischman	398-8336
Indemnification (ARCs, REM)	Ben Hamm	398-8347
Indian Issues	Jan Baker	398-8328
Labor Rates/Cost Estimates	Tom Whalen	398-8345
Mining	Steve Golian	398-8360
Multisource Ground Water	Deborah McKie	398-8372
Municipal Landfills	Sue Cange	398-8362
Natural Resource Damage	Bill Ross	398-8335
PCBs	Jennifer Haley	398-8363
Preauthorization/Claims	Bill Ross	398-8335
PRP Oversight for RD/RA	Ed Hanlon	398-8352
Real Estate	JoAnn Griffith	398-8353
Risk Assessment	Bruce Means	382-2201
Selection of Remedy	David Cooper	398-8361
Soil/Ground Water Modeling	Alison Barry	398-8366
Technical Assistance Grants (TAG)	Linda Ross	398-8342
Treatability Studies	Robin Anderson	398-8371

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Suggestions

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Richard Steimle
Technology Innovation Office (OS-110)
U.S. Environmental Protection Agency
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